

BEAM POWER TUBE

9-PIN MINIATURE TYPE

For use in mobile communications equipment operating from 6-cell storage-battery systems

| GENERAL DATA | | |
|---|--|--|
| lectrical: | | |
| Voltage range 12 to 15 Current (Approx.) at 13.5 volts 0.21 O.21 | 0.7 m | amp ax. μμί μμί |
| except grid No.1 | 8.5 | $\mu\mu$ 1 |
| Mechanical: Operating Position Maximum Overall Length Maximum Seated Length Length, Base Seat to Bulb Top (Excluding Diameter Dimensional Outline. Bulb Base Basing Designation for BOTTOM VIEW | tip)2"0.750" to .See General -Pin (JETEC N | "2-5/8." "2-3/82" "3/32" "0.875 Section T6-1/2 0.E9-1) |
| Pin 1-Grid No.2 Pin 2-No Connection Pin 3-Grid No.1 Pin 4-Heater Pin 5-Heater | Pin 6-Grid Pin 7-Catho Grid Pin 8-Grid Pin 9-Plate | de, No.3 No.2 |
| AMPLIFIER - Class A | | |
| Maximum Ratings, Absolute Values: | | |
| PLATE VOLTAGE | 345 max. 310 max. 2 max. 9 max. | volts volts watts watts volts |
| ypical Operation and Characteristics: | | |
| Heater Voltage | 13.5 200 200 -10 | volts volts volts volts |
|) Without external shield. | | |
| 1–58 | TENTATIVE | 5 |

1061



BEAM POWER TUBE

| Max.—Signal Grid—No.2 Current | ma ma ma ma ma ma ohms μmhos |
|--|--|
| Maximum Circuit Values: | |
| For cathode-bias operation 0. | L max. megohm |
| CHARACTERISTICS RANGE VALUES FOR EQUIPMEN | T DESIGN |
| Note Min. | Max. |
| Heater Current | 0.23 amp 5800 μmhos 45 ma 6.5 ma -2 μa - watts 50 μa |
| Leakage Resistance: Between grid No.1 and all other | |
| electrodes tied together 1,6 50 Between plate and all other | - megohms |
| electrodes tied together 1,7 50 | - megohms |
| Note 1: With ac or dc heater volts = 13.5. Note 2: With dc plate volts = 200, grid-No.2 volts = 200 = -10, and grid No.3 connected to cathode. Note 3: With grid-No.1 resistor (megohms) = 0.1. Note 4: With load resistor (ohms) = 5000, and rms signal Note 5: With 100 volts dc between heater and cathode. Note 6: With grid No.1 100 volts negative with respect to all | , grid-No.1 volts volts = 7.1. ct to all other |
| tied together. | |
| SPECIAL RATINGS & PERFORMANCE DATA | |
| Heater-Cycling Life Performance: | 1 |

|Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent





BEAM POWER TUBE

operation is applied under the following conditions: heater volts = 17 cycled one minute on and four minutes off, heater 135 volts negative with respect to cathode, and all other elements connected to ground. At the end of this test, tubes are checked for heater—cathode shorts and open circuits.

Low-Frequency Vibration Performance:

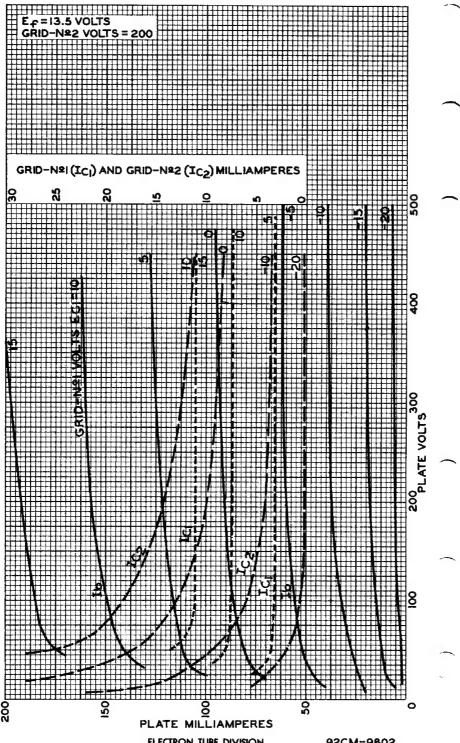
This test is performed on a sample lot of tubes from each production run under the following conditions: heater volts = 13.5, plate volts = 200, grid-No.2 volts = 200, grid-No.1 volts = -10, plate load resistor (ohms) = 2000, and vibrational acceleration of 2.5 g at 25 cps. In this test, the rms output voltage must not exceed 500 millivolts.

500-Hour Intermittent Life Performance:

This test is performed on a sample lot of tubes from each production run to insure high quality of the individual tube and to guard against epidemic failures. Life testing is conducted under the following conditions: heater volts = 15, and maximum-rated plate dissipation and grid-No.2 input.



AVERAGE CHARACTERISTICS

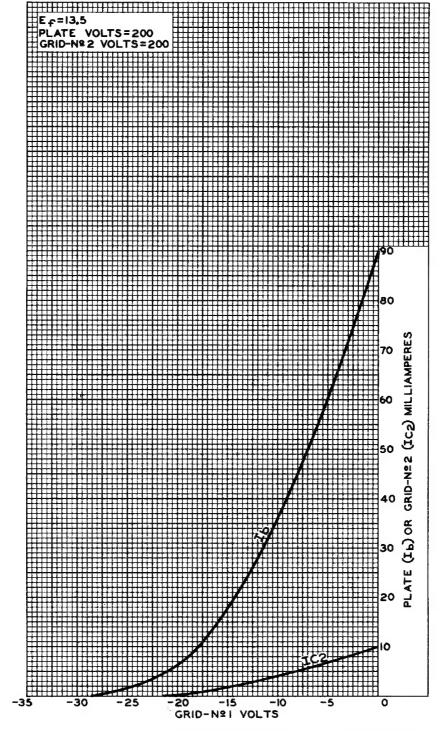


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BADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9802



AVERAGE CHARACTERISTICS



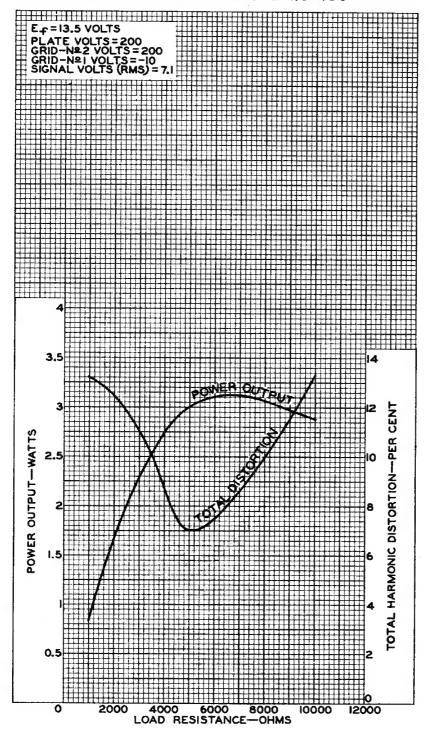
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92CM-9794



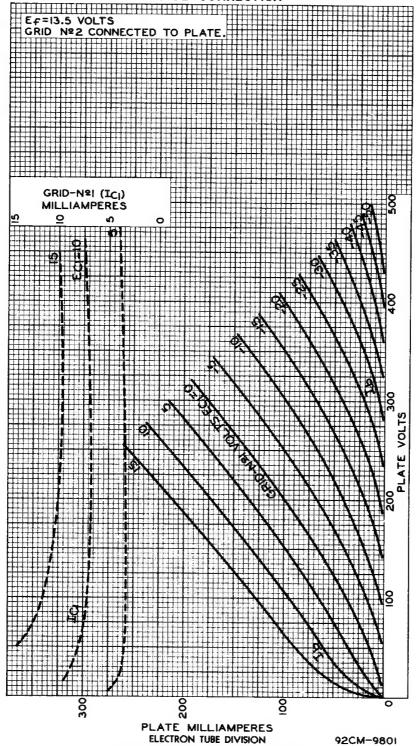


OPERATION CHARACTERISTICS





AVERAGE CHARACTERISTICS TRIODE CONNECTION



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